

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	2	("5135775" "20030064198").PN.	US-PGPUB; USPAT	OR	ON	2009/11/10 17:09
S3	2	((oxygen "O.sub.2") with plasma) same "linear ion source")	US-PGPUB; USPAT	OR	ON	2009/11/11 15:38
S4	45	(plasma same "linear ion source") and @PY<"2004"	US-PGPUB; USPAT	OR	ON	2009/11/11 15:40
S5	3	(plasma same "linear ion source") and @PY<"2004" and ((oxygen "O.sub.2") with (mill\$4 etch\$4))	US-PGPUB; USPAT	OR	ON	2009/11/11 16:02
S6	38	"linear ion source" and @PY<"2004" and ((oxygen "O.sub.2") same (argon Ar))	US-PGPUB; USPAT	OR	ON	2009/12/04 08:45
S7	45	(plasma same "linear ion source") and @PY<"2004"	US-PGPUB; USPAT	OR	ON	2009/12/04 08:45
S8	2	S6 not S7	US-PGPUB; USPAT	OR	ON	2009/12/04 08:45
S9	36	S6 not S8	US-PGPUB; USPAT	OR	ON	2009/12/04 08:46
S10	1	"20030064198".PN. and (oxygen "O.sub.2" argon Ar)	US-PGPUB; USPAT	OR	ON	2009/12/04 08:51
S11	41	S7 and (concentration ratio)	US-PGPUB; USPAT	OR	ON	2009/12/04 08:54
S12	0	"linear ion source" and @PY<"2004" and (((oxygen "O.sub.2") same (argon Ar)) same (concentration ratio))	US-PGPUB; USPAT	OR	ON	2009/12/04 08:54
S13	3	"linear ion source" and @PY<"2004" and (((oxygen "O.sub.2") same (argon Ar)) same (amount))	US-PGPUB; USPAT	OR	ON	2009/12/04 08:54
S14	1	"20030064198".PN. and (CVD deposition)	US-PGPUB; USPAT	OR	ON	2010/01/21 08:47
S15	1	"20030064198".PN. and (vacuum pressure)	US-PGPUB; USPAT	OR	ON	2010/01/21 08:48
S16	1	"5206060".PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:05
S18	834	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:07
S19	18	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN. and ((argon Ar helium He Neon Ne) with (oxygen "O.sub.2"))	US-PGPUB; USPAT	OR	ON	2010/01/21 09:08

## EAST Search History (Prior Art)

S20	19	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN. and ((argon Ar helium He Neon Ne) same (oxygen "O. sub.2"))	US-PGPUB; USPAT	OR	ON	2010/01/21 09:18
S21	1	S20 not S19	US-PGPUB; USPAT	OR	ON	2010/01/21 09:18
S22	6	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN. and "linear ion source"	US-PGPUB; USPAT	OR	ON	2010/01/21 09:21
S23	0	S22 not S20	US-PGPUB; USPAT	OR	ON	2010/01/21 09:21
S24	3	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN. and "sputtering efficiency"	US-PGPUB; USPAT	OR	ON	2010/01/21 09:22
S25	2	S24 not S20	US-PGPUB; USPAT	OR	ON	2010/01/21 09:22
S26	16	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN. and (clean\$4). clm.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:23
S27	12	S26 not (S20 S25)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:23
S28	4	(Nadaud-Nicolas Nadaud Mattman-Eric Mattman Rousseau-Jean-Paul Rousseau Loergen-Mercus Loergen).IN. and (etch\$4). clm.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:30
S29	4	S28 not (S20 S25 S27)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:30
S30	398	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:32
S31	4	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS. and "linear ion source"	US-PGPUB; USPAT	OR	ON	2010/01/21 09:32
S32	0	S31 not S22	US-PGPUB; USPAT	OR	ON	2010/01/21 09:32
S33	29	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS. and (etch\$4 clean\$4).clm.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:33
S34	25	S33 not (S20 S25 S27)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:33
S35	0	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS. and "sputtering efficiency"	US-PGPUB; USPAT	OR	ON	2010/01/21 09:41
S36	149	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS. and sputtering	US-PGPUB; USPAT	OR	ON	2010/01/21 09:42
S37	0	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS. and (sputtering with efficiency)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:42

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S38	37	("Saint-Gobain Glass France" "Saint-Gobain Glass").AS. and ((argon Ar helium He Neon Ne) same (oxygen "O.sub.2"))	US-PGPUB; USPAT	OR	ON	2010/01/21 09:42
S39	26	S38 not (S34 S20 S25 S27)	US-PGPUB; USPAT	OR	ON	2010/01/21 09:42
S41	2	("5135775" "20030064198").PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 09:48
S42	1	"20070157668".PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 10:10
S43	2	"linear ion source"	JPO	OR	ON	2010/01/21 12:43
S44	1	"linear ion source"	EPO	OR	ON	2010/01/21 12:53
S45	0	"linear ion source"	USOCR; FPRS; IBM_TDB	OR	ON	2010/01/21 12:54
S46	10	"linear ion source"	DERWENT	OR	ON	2010/01/21 12:54
S47	1	"5236509".PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:09
S48	1	"5236509".PN. and linear and vacuum	US-PGPUB; USPAT	OR	ON	2010/01/21 13:11
S49	112	"linear ion source"	US-PGPUB; USPAT	OR	ON	2010/01/21 13:19
S50	1	"7264741".PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:24
S51	1	"7264741".PN. and vacuum	US-PGPUB; USPAT	OR	ON	2010/01/21 13:24
S52	1	"20040175511".PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 13:40
S53	1	"20040175511".PN.	US-PGPUB; USPAT	OR	ON	2010/01/21 14:34
S54	10	(US-20020117250-\$ or US-20070157668-\$ or US-20040175511-\$ or US-20040020761-\$ or US-20070228369-\$ or US-20020155294-\$ or US-20010044030-\$).did. or (US-5973447-\$ or US-5236509-\$ or US-4424103-\$).did.	US-PGPUB; USPAT	OR	ON	2010/01/21 16:06
S55	54323	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam")	US-PGPUB; USPAT	OR	ON	2010/01/21 16:53
S56	11745	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/01/21 16:54
S57	4594	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and ((oxygen "O.sub.2") same plasma)	US-PGPUB; USPAT	OR	ON	2010/01/22 08:46
S58	3427	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and ((oxygen "O.sub.2") same plasma) and vacuum	US-PGPUB; USPAT	OR	ON	2010/01/22 08:47

## EAST Search History (Prior Art)

S59	1085	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma)	US-PGPUB; USPAT	OR	ON	2010/01/22 08:48
S60	112	"linear ion source"	US-PGPUB; USPAT	OR	ON	2010/01/22 08:48
S61	1039	S59 not S60	US-PGPUB; USPAT	OR	ON	2010/01/22 08:48
S62	399	((("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") near40 ((oxygen "O.sub.2") with (argon Ar))) and glass	US-PGPUB; USPAT	OR	ON	2010/01/22 08:50
S63	382	S62 not S60	US-PGPUB; USPAT	OR	ON	2010/01/22 08:50
S64	29	((("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") near40 ((oxygen "O.sub.2") with (argon Ar))) and glass	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 10:45
S65	1	"6808606".PN. and (oxygen "O.sub.2")	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 10:54
S66	1	"6808606".PN. and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/01/22 10:54
S67	142	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and clean\$4	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:08
S68	141	S67 not S64	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:09
S69	1747	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:42
S70	140	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and mill\$4	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:42
S71	124	S70 not (S64 S68)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:42

## EAST Search History (Prior Art)

S73	1	"20080052953".PN. and rectify\$4	US-PGPUB; USPAT	OR	ON	2010/01/22 13:33
S74	113	(134/1 134/1.1 134/1.2 134/1.3 134/15 134/21 134/26 134/42).ccls. and ("ion gun" "ion beam" (collimat\$4 near2 beam)) and @PY<"2005"	US-PGPUB; USPAT	OR	ON	2010/01/25 08:38
S76	17	(US-20020117250-\$ or US-20070157668-\$ or US-20040175511-\$ or US-20040020761-\$ or US-20070228369-\$ or US-20020155294-\$ or US-20010044030-\$ or US-20080174872-\$).did. or (US-5973447-\$ or US-5236509-\$ or US-4424103-\$ or US-6783636-\$ or US-6175450-\$ or US-5846649-\$ or US-4599272-\$ or US-6756161-\$ or US-6808606-\$).did.	US-PGPUB; USPAT	OR	ON	2010/01/25 08:47
S77	15	((US-20020117250-\$ or US-20070157668-\$ or US-20040175511-\$ or US-20040020761-\$ or US-20070228369-\$ or US-20020155294-\$ or US-20010044030-\$ or US-20080174872-\$).did. or (US-5973447-\$ or US-5236509-\$ or US-4424103-\$ or US-6783636-\$ or US-6175450-\$ or US-5846649-\$ or US-4599272-\$ or US-6756161-\$ or US-6808606-\$).did.) and ((argon Ar neon Ne helium He) same (oxygen "O.sub.2"))	US-PGPUB; USPAT	OR	ON	2010/01/25 08:47
S78	170	(134/1 134/1.1 134/1.2 134/1.3 134/15 134/21 134/26 134/42).ccls. and glass and ((argon Ar neon Ne helium He) same (oxygen "O.sub.2")) and @PY<"2005"	US-PGPUB; USPAT	OR	ON	2010/01/25 09:11
S79	162	S78 not S74	US-PGPUB; USPAT	OR	ON	2010/01/25 09:11
S80	1	"20040020761".PN.	US-PGPUB; USPAT	OR	ON	2010/01/25 09:27
S81	1	"20040020761".PN. and vacuum	US-PGPUB; USPAT	OR	ON	2010/01/25 09:37
S82	1	"20030064198".PN. and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/01/25 10:29
S83	0	"20030064198".PN. and ALS	US-PGPUB; USPAT	OR	ON	2010/01/25 10:34
S84	0	(veeco).AS. and glass and ((argon Ar neon Ne helium He) same (oxygen "O.sub.2")) and @PY<"2005"	US-PGPUB; USPAT	OR	ON	2010/01/25 10:56
S85	246	(veeco).AS.	US-PGPUB; USPAT	OR	ON	2010/01/25 10:56
S86	13	(veeco).AS. and glass and (oxygen "O.sub. 2" argon Ar)	US-PGPUB; USPAT	OR	ON	2010/01/25 10:56
S87	3	(veeco).AS. and glass and ((argon Ar neon Ne helium He) same (oxygen "O.sub.2"))	US-PGPUB; USPAT	OR	ON	2010/01/25 10:59

## EAST Search History (Prior Art)

S88	1	"20040020761".PN. and cathode and sputter\$4	US-PGPUB; USPAT	OR	ON	2010/01/25 12:37
S89	1	"20040020761".PN. and (move movement)	US-PGPUB; USPAT	OR	ON	2010/01/25 12:41
S90	1	"20040020761".PN. and sputter\$4	US-PGPUB; USPAT	OR	ON	2010/01/25 12:47
S91	361	"cathode sputtering" and glass and ((oxygen "O.sub.2") same (argon Ar))	US-PGPUB; USPAT	OR	ON	2010/01/25 13:44
S92	248	"cathode sputtering" and glass and ((oxygen "O.sub.2") same (argon Ar)) and @PY< "2005"	US-PGPUB; USPAT	OR	ON	2010/01/25 13:44
S93	47	"cathode sputtering" with defin\$4	US-PGPUB; USPAT	OR	ON	2010/01/25 13:49
S94	1	"20040020761".PN.	US-PGPUB; USPAT	OR	ON	2010/01/25 14:01
S95	1	"5846649".PN.	US-PGPUB; USPAT	OR	ON	2010/01/25 14:03
S96	15453	glass and ("linear ion source" "ion beam") and (energy keV eV)	US-PGPUB; USPAT	OR	ON	2010/01/25 14:06
S97	7353	glass and ("linear ion source" "ion beam") and (energy keV eV) and @PY< "2005"	US-PGPUB; USPAT	OR	ON	2010/01/25 14:06
S98	128	windshield and glass and ("linear ion source" "ion beam") and (energy keV eV) and @PY< "2005"	US-PGPUB; USPAT	OR	ON	2010/01/25 14:07
S99	1	"20020117250".PN. and (energy keV eV)	US-PGPUB; USPAT	OR	ON	2010/01/25 14:35
S100	27	"cathode sputtering" and glass and ((oxygen "O.sub.2") same (argon Ar)) and @PY< "2005" and "magnetically enhanced"	US-PGPUB; USPAT	OR	ON	2010/01/25 15:05
S101	1	"20040020761".PN. and reflect\$4	US-PGPUB; USPAT	OR	ON	2010/01/25 15:09
S102	1	"4891113".PN.	US-PGPUB; USPAT	OR	ON	2010/01/25 15:13
S104	1	"20040020761".PN. and window	US-PGPUB; USPAT	OR	ON	2010/01/25 15:38
S105	6967	("chemical vapor deposition" CVD) and glass and ((oxygen "O.sub.2") same (argon Ar)) and @PY< "2005"	US-PGPUB; USPAT	OR	ON	2010/01/27 08:42
S106	99	("chemical vapor deposition" CVD) and glass and ((oxygen "O.sub.2") same (argon Ar)) and @PY< "2005" and architectural	US-PGPUB; USPAT	OR	ON	2010/01/27 08:43
S107	1	"20070157668".PN. and (argon Ar)	US-PGPUB; USPAT	OR	ON	2010/07/06 09:29
S108	14	"linear ion source" and collimat\$4 and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/07/06 09:36
S109	4	"10003436"	US-PGPUB; USPAT	OR	ON	2010/07/06 09:56

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S11 0	1	"20030077402".PN.	US-PGPUB; USPAT	OR	ON	2010/07/06 10:37
S11 1	1	"20030077402".PN. and (linear collimat\$4)	US-PGPUB; USPAT	OR	ON	2010/07/06 12:48
S11 2	1	"20070157668".PN. and mixture	US-PGPUB; USPAT	OR	ON	2010/07/06 13:50
S11 3	1	"20030077402".PN. and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/07/06 14:16
S11 4	98	"linear ion source" and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/07/06 14:20
S11 5	14	"linear ion source" and collimat\$4 and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2010/07/06 14:20
S11 6	84	S114 not S115	US-PGPUB; USPAT	OR	ON	2010/07/06 14:20
S11 7	54	S116 and ((oxygen "O.sub.2") same (He Ne Ar Kr Xe))	US-PGPUB; USPAT	OR	ON	2010/07/06 14:21
S11 8	0	S116 and ((oxygen "O.sub.2") same (He Ne Kr Xe))	US-PGPUB; USPAT	OR	ON	2010/07/06 14:21
S11 9	21	S116 and (oxygen "O.sub.2") and (He Ne Kr Xe)	US-PGPUB; USPAT	OR	ON	2010/07/06 14:22
S12 0	1267	(ion same collimat\$4) and (oxygen "O.sub. 2")	US-PGPUB; USPAT	OR	ON	2010/07/06 14:40
S12 1	665	(ion same collimat\$4) and (oxygen "O.sub. 2") and glass	US-PGPUB; USPAT	OR	ON	2010/07/06 14:41
S12 2	336	(ion same collimat\$4) and (oxygen "O.sub. 2") and glass and clean\$4	US-PGPUB; USPAT	OR	ON	2010/07/06 14:41
S12 3	173	(ion same collimat\$4) and ((oxygen "O.sub. 2") same clean\$4)	US-PGPUB; USPAT	OR	ON	2010/07/06 14:42
S12 4	173	S123 not S119	US-PGPUB; USPAT	OR	ON	2010/07/06 14:42
S12 5	48	ion and (oxygen "O.sub.2") and (windshield "wind shield" glass window)	EPO	OR	ON	2010/07/06 15:30
S12 6	558	ion and (oxygen "O.sub.2") and (windshield "wind shield" glass window)	JPO	OR	ON	2010/07/06 16:00
S12 7	24	ion and clean\$4 and (oxygen "O.sub.2") and (windshield "wind shield" glass window)	JPO	OR	ON	2010/07/06 16:00

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S12 8	30	(US-20020117250-\$ or US-20070157668-\$ or US-20040175511-\$ or US-20040020761-\$ or US-20070228369-\$ or US-20020155294-\$ or US-20010044030-\$ or US-20080174872-\$ or US-20040163945-\$ or US-20020176988-\$ or US-20020155299-\$ or US-20050098118-\$ or US-20030077402-\$ or US-20020081378-\$).did. or (US-5973447-\$ or US-5236509-\$ or US-4424103-\$ or US-6783636-\$ or US-6175450-\$ or US-5846649-\$ or US-4599272-\$ or US-6756161-\$ or US-6808606-\$ or US-4851095-\$ or US-4891113-\$ or US-4512864-\$ or US-6521295-\$ or US-7198699-\$ or US-6818257-\$ or US-6451389-\$).did.	US-PGPUB; USPAT	OR	ON	2010/07/08 10:15
S12 9	15	((US-20020117250-\$ or US-20070157668-\$ or US-20040175511-\$ or US-20040020761-\$ or US-20070228369-\$ or US-20020155294-\$ or US-20010044030-\$ or US-20080174872-\$ or US-20040163945-\$ or US-20020176988-\$ or US-20020155299-\$ or US-20050098118-\$ or US-20030077402-\$ or US-20020081378-\$).did. or (US-5973447-\$ or US-5236509-\$ or US-4424103-\$ or US-6783636-\$ or US-6175450-\$ or US-5846649-\$ or US-4599272-\$ or US-6756161-\$ or US-6808606-\$ or US-4851095-\$ or US-4891113-\$ or US-4512864-\$ or US-6521295-\$ or US-7198699-\$ or US-6818257-\$ or US-6451389-\$).did.) and (He helium Ne Neon Kr krypton Xe xenon)	US-PGPUB; USPAT	OR	ON	2010/07/08 10:15
S13 0	1	"20030077402".PN.	US-PGPUB; USPAT	OR	ON	2010/07/08 10:38
S13 1	1	"20030077402".PN. and cathode	US-PGPUB; USPAT	OR	ON	2010/07/08 13:17
S13 2	1	"20030077402".PN.	US-PGPUB; USPAT	OR	ON	2010/07/09 08:02
S13 3	1	"20030077402".PN. and magnetic\$4 and cathode	US-PGPUB; USPAT	OR	ON	2010/07/09 08:03
S13 4	1	"20030077402".PN.	US-PGPUB; USPAT	OR	ON	2011/02/02 14:04
S13 5	1	"20040020761".PN.	US-PGPUB; USPAT	OR	ON	2011/02/02 14:26
S13 6	2753	(clean\$4 with substrate) and (substrate with glass) and ((oxygen "O.sub.2") with clean\$4)	US-PGPUB; USPAT	OR	ON	2011/02/02 14:51
S13 7	95	(clean\$4 with substrate) and (substrate with glass) and ((oxygen "O.sub.2") with clean\$4) and (windshield "wind shield" windscreen "wind screen")	US-PGPUB; USPAT	OR	ON	2011/02/02 14:52



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S13 8	1	"7067175".PN. and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2011/02/02 15:25
S13 9	1	"6713178".PN. and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2011/02/02 15:27
S14 0	1	"6261693".PN. and (oxygen "O.sub.2")	US-PGPUB; USPAT	OR	ON	2011/02/02 15:28
S14 1	1	"20040020761".PN.	US-PGPUB; USPAT	OR	ON	2011/02/03 12:59
S14 4	1	"20060144834".PN.	US-PGPUB; USPAT	OR	ON	2011/02/03 14:58
S14 5	1	"20040020761".PN.	US-PGPUB; USPAT	OR	ON	2011/02/07 09:05
S14 7	1	"20040020761".PN.	US-PGPUB; USPAT	OR	ON	2011/08/30 09:46
S14 8	1	"20030064198".PN.	US-PGPUB; USPAT	OR	ON	2011/08/30 10:48
S14 9	1	"20070157668".PN.	US-PGPUB; USPAT	OR	ON	2011/08/30 11:12
S15 0	1	"20110180114".PN.	US-PGPUB; USPAT	OR	ON	2011/08/30 12:17
S15 1	2	("5153054" "5376455").PN.	US-PGPUB; USPAT	OR	ON	2011/08/31 09:47
S15 2	0	"2002192473".PN.	US-PGPUB; USPAT	OR	ON	2011/08/31 11:24
S15 3	1	"20020192473".PN.	US-PGPUB; USPAT	OR	ON	2011/08/31 11:24
S15 4	1	"20070157668".PN.	US-PGPUB; USPAT	OR	ON	2011/08/31 12:50
S15 5	1417	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and glass	US-PGPUB; USPAT	OR	ON	2011/08/31 14:27
S15 6	112	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and glass and collimat\$4	US-PGPUB; USPAT	OR	ON	2011/08/31 14:27
S15 7	43	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and ((glass with clean\$4) same beam)	US-PGPUB; USPAT	OR	ON	2011/08/31 15:02
S15 8	39	S157 not S156	US-PGPUB; USPAT	OR	ON	2011/08/31 15:03
S15 9	55	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") same (inert argon Ar helium He Neon Ne krypton Kr)) same plasma) and ((glass with clean\$4) same beam)	US-PGPUB; USPAT	OR	ON	2011/08/31 15:23

## EAST Search History (Prior Art)

S16 0	12	S159 not (S157 S156)	US-PGPUB; USPAT	OR	ON	2011/08/31 15:23
S16 1	144	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and mill\$4	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:10
S16 2	1	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and glass and collimat\$4	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:40
S16 3	13	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and glass	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:40
S16 4	12	S163 not (S162 S161)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:41
S16 5	1	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") same (inert argon Ar helium He Neon Ne krypton Kr)) same plasma) and ((glass with clean\$4) same beam)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:46
S16 6	21	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") same (inert argon Ar helium He Neon Ne krypton Kr)) same plasma) and glass	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:46
S16 7	18	S166 not (S162 S161 S165)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/31 16:47

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Defa ult Oper ator	Plurals	Time Stamp
S16 8	113	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and glass and collimat\$4	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/31 16:57

## EAST Search History (Interference)

S169	43	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") with (argon Ar)) same plasma) and ((glass with clean\$4) same beam)	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/31 17:11
S170	39	S169 not S168	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/31 17:11
S171	55	("ion gun" "ion beam" (collimated near2 ion) "direct ion beam") and glass and (((oxygen "O.sub.2") same (inert argon Ar helium He Neon Ne krypton Kr)) same plasma) and ((glass with clean\$4) same beam)	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/31 17:21
S172	12	S171 not (S168 S169)	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/31 17:21
S173	109	"linear ion source" and (oxygen "O.sub.2")	US-PGPUB; USPAT; UPAD	OR	ON	2011/09/01 09:02
S174	190	(ion same collimat\$4) and ((oxygen "O.sub.2") same clean\$4)	US-PGPUB; USPAT; UPAD	OR	ON	2011/09/01 09:32
S175	180	S174 not S173	US-PGPUB; USPAT; UPAD	OR	ON	2011/09/01 09:32